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AID 1020-2B (10-70)

REPORT U-446

PD-AAD-458-01

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PROJECT APPRAISAL REPORT (PAR)

1. PROJECT NO.	2. PAR FOR PERIOD	3. COUNTRY	4. PAR SERIAL NO.
489-11-230-683	July 1974 TO June 1975	Korea	1976-1

5. PROJECT TITLE

SCIENCE AND TECHNOLOGY

6. PROJECT DURATION: Began FY 1973 Ends FY 1976	7. DATE LATEST PROP	8. DATE LATEST PIP	9. DATE PRIOR PAR
	11/17/72		5/22/74

10. U.S. FUNDING	a. Cumulative Obligation Thru Prior FY: $ 352,000	b. Current FY Estimated Budget: $ 100,000	c. Estimated Budget to completion After Current FY: $ 0

11. KEY ACTION AGENTS (*Contractor, Participating Agency or Voluntary Agency*)

a. NAME	b. CONTRACT, PASA OR VOL. AG. NO.
Ministry of Science and Technology (MOST)	
ROKG (Block Grant)	

I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X) USAID	A. ACTION (X) AID/W	A. ACTION (X) HOST	B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE

D. REPLANNING REQUIRES REVISED OR NEW: ☒ PROP ☐ PIP ☐ PRO AG ☐ PIO/T ☐ PIO/C ☐ PIO/P

E. DATE OF MISSION REVIEW: August 11, 1975

PROJECT MANAGER: TYPED NAME, SIGNED INITIALS AND DATE: Dennis P. Barrett

MISSION DIRECTOR: TYPED NAME, SIGNED INITIALS AND DATE: Michael H. B. Adler

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II. PERFORMANCE OF KEY INPUTS AND ACTION AGENTS

A. OBJECT OR ACTION AGENT (DONOR, CONTRACTOR, PARTICIPATING AGENCY OR VOLUNTARY AGENCY)	B. PERFORMANCE AGAINST PLAN: UNSATISFACTORY 1	2	SATISFACTORY 3	4	5	OUTSTANDING 6	7	C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X): LOW 1	MEDIUM 2	3	4	HIGH 5
1. Ministry of Science and Technology						X						X
2.												
3.												

Comment on key factors determining rating

In addition to the initial Block Grant Agreement and the first amendment thereto, the second amendment was executed in May 1975. The total funds made available for these Block Grant activities is $377,000. The ROKG has assumed sole responsibility for the programming of funds provided and for implementation of the project. The Ministry of Science and Technology (MOST) has demonstrated a high level of competence in recruiting consultants and experts from U.S. scientific and technological institutions. MOST has also repatriated U.S. educated Korean scientists for indigenous science and technology institutions, which has served to promote and strengthen linkages and cooperative relationships between the ROKG and such institutions in the U.S.

	1	2	3	4	5	6	7	1	2	3	4	5
4. PARTICIPANT TRAINING						X						X

Comment on key factors determining rating During the rating period, MOST has sent 25 Korean participants selected from indigenous science and technology organizations for training in the U.S. in such fields as industrial pollution, meteorology, nuclear engineering, cotton yarn knitting, industrial standardization, to name a few. The participants have served to form linkages, and to act as points of contact with host U.S. institutions to exchange science and technology information.

	1	2	3	4	5	6	7	1	2	3	4	5
5. COMMODITIES												

Comment on key factors determing rating

N.A.

		1	2	3	4	5	6	7	1	2	3	4	5
6. COOPERATING COUNTRY	a. PERSONNEL												
	b. OTHER												

Comment on key factors determining rating This evaluation is based on the facts reported in last year's PAR 74-5, i.e. the Technical Cooperation Bureau, MOST and a number of cooperating scientific institutions; such as the Korea Institute for Science and Technology (KIST), the Korea Atomic Energy Research Institute (KAERI), the Korea Advanced Institute of Science (KAIS), etc. These organizations have contributed substantially in the design of the programs leading to institutional linkages, as well as in the recruitment of expert advisors and in training participants. This evaluation is also based on quantitative increases in actual performance during the rating period. In the first year, the exchange of scientific personnel was not significant due to the insufficient time and lack of experience of MOST in setting up and implementing this program. The number of the scientific personnel funded under the Block Grant has increased from 26 in 1974 to 55 in 1975. This demonstrates the increased competence by MOST in programming the funds provided under this project.

	1	2	3	4	5	6	7	1	2	3	4	5
7. OTHER DONORS												

(See Next Page for Comments on Other Donors)

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II. 7. Continued: Comment on key factors determining rating of Other Donors

N.A.

III. KEY OUTPUT INDICATORS AND TARGETS

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					
		CUMULATIVE PRIOR FY	CURRENT FY TO DATE	CURRENT FY TO END	FY 76	FY ____	END OF PROJECT
A periodically reviewed plan by MOST and other Korean institutions concerning the quality and quantity of linkages.	PLANNED	2	4	0	4		10
	ACTUAL PERFORMANCE	1	4				
	REPLANNED			0	4		9
Consultants brought to Korea	PLANNED	27	16	0	15		58
	ACTUAL PERFORMANCE	18	25				
	REPLANNED			0	20		63
Participants sent for training in the USA	PLANNED	10	11	0	12		33
	ACTUAL PERFORMANCE	7	23				
	REPLANNED			0	18		48
Korean scientists repatriated	PLANNED	7	5	0	3		15
	ACTUAL PERFORMANCE	1	7				
	REPLANNED			0	3		11

B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS	COMMENT:
1. Build-up of MOST operated systems of management, finance, and information supportive of established linkages.	MOST and indigenous science and technology institutions have expanded linkages and developed sister relationships with an increased number of related U.S. organizations, (See Actual Performance, Section III A above)
2. Output of applied and adaptive research and its use by Korean industrial, commercial and technological establishments.	COMMENT: Reports of consultants' services and research resulting from training under this project are prepared for wide distribution to relevant ROKG and private science and technology organizations, including universities, graduate schools and laboratories so that they can be updated in the development of their particular fields of specialization.
3. Utilization of linkages to improve output and utilization of technology and research.	MOST and NAS have established a Joint-Committee for continuing scientific cooperation; KIST signed a sister laboratory agreement with BMI and Research Triangle Institute; and KAERI entered into a sister laboratory relationship agreement with Argonne National Laboratory. These resulted in exchange of research personnel, technical support, and the initiation of joint research and development programs.

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IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged. 2. Same as in PROP? ☒ YES ☐ NO

The purpose of the project is to promote linkages between MOST and other Korean scientific organizations, as the MOST may designate, and U.S. scientific organizations.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.
MOST linkages, in a number of scientific and technological fields, with U.S. institutions and organizations.	A number of linkages with U.S. science and technology institutions has increased.
MOST-operated information and linkage-promoting systems which stimulate and support American scientific and technological research interests in Korean problems.	The ROKG has continued to collaborate with U.S. researchers and consultants, both in public and private institutions, on subjects of mutual interests; for example, marine science, industrial standardization, pollution problems, energy research and development, etc.
Domestic scientific research and technological study capabilities steadily strengthened through linkages.	The exchange of scientists has continued to help establish various science and technology development plans in Korea. Consultants from private and public institutions, as well as self-employed experts, have provided ROKG with their advice, which has resulted in the sectoral and overall plan for the Daeduk Science Town under construction. Another expert to the National Industrial Standard Research Institute has contributed to improved operations of this organization.

V. PROGRAMMING GOAL

A. Statement of Programming Goal

This project is designed to facilitate the introduction of current/innovative technologies so that the Korean scientific and industrial research efficiency will meet the needs of an expanding and changing economy.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence. Yes. As reported in last year's PAR, the promotion of linkages with U.S. scientific organizations and resultant inflow of innovative technologies will have a significant effect on Korea's science and technology. For example, through technical advisory services from a selected consultant, ROKG formulated a plan for establishment of a mechanical research institute. A repatriated Korean scientist has been assigned to head the National Astronomical Observatory, newly established in 1974, to make use of his advanced knowledge in the operation and management of the Laboratory. In addition, substantial contributions have been made by another group of selected scientists to the establishment of major ROKG science and technology development policies, as well as to the planning of Dae Duck Science Town project which is a potential center for Korean science and technology research and development. MOST believes that the advisory inputs from U.S. organization will continue to play a crucial role in transferring new technological dimensions to Korea's research efforts in scientific and technological fields.